

## References

### American Association of State Highway and Transportation (AASHTO)

- 1999 Guide for the Development of Bicycle Facilities. Washington, D.C.
- 2001 A Policy on Geometric Design of Highways and Streets. Washington, D.C.
- 2003 Guide Manual for Condition Evaluation and Load and Resistance Factor Rating (LRFR) of Highway Bridges, 1st Edition. Washington, D.C. October, 2003.

### Biowest, Inc.

- 1979 Selby, D., and Holden, P.B. Survey for fish, invertebrates, and algae in Salt Wash on Arches National Park. Moab, Utah.
- 1993 Ichthyofauna Communities of the Colorado and Green Rivers in the Canyonlands National Park. Moab, Utah.

Colt, C. (Personal communication [phone call] April 12, 2006). Division of Wildlife Resources. Discussion regarding Scott Matheson Wetland Preserve.

### Bureau of Land Management (BLM)

- 1963 Land Grant from BLM to Grand County. April 16, 1963.
- 1985 Moab Field Office website. Grand Resource Area Resource Management Plan. July 1985. Retrieved March 14, 2006 from <http://blm.gov/rmp/ut/moab/index.htm>.
- 2001 Moab Field Office. Environmental Assessment: Utah's Colorado Riverway Recreation Area Management Plan, Amendment 1. EA # UT-062-99-151. May 31, 2001.
- 2004 Moab Field Office. Environmental Assessment. Management Plan. Amendment 2: Pedestrian Bridge/Riverway Bike Lane. Colorado River – Special Recreation Management Area. EA # UT-062-04-014. May 2004.
- 2006 Moab Field Office. Moab RMP Draft EIS. Appendix J: Wild and Scenic Rivers Study Process. Accessed November 7, 2006 from <http://www.blm.gov/rmp/ut/moab/appendicesaccompanyingalternatives/Appendix%20J%20Wild%20and%20Scenic%20Study%20Process.pdf>.

### Census Bureau [United States]

- 2000 American Fact Finder – 2000 Census. Retrieved November 15, 2005 from <http://www.census.gov>.
- 2004 County Business Patterns (NAICS). Grand County, UT. Retrieved November 15, 2005 from <http://censtats.census.gov/cbpnaic/cbpnaic.shtml>.

### Division of Drinking Water (DDW)

- 2005 Moab North Drinking Water Sources and Protection Zones. Received shapefile from Mark Jensen of the Utah Division of Drinking Water on October 24, 2005.

### Division of Environmental Response and Remediation (DERR)

- 2006a List of State Hazardous Waste Sites. Accessed June, 2006 from <http://www.hazardouswaste.utah.gov/>.
- 2006b Interactive Map web page. Accessed June, 2006 from <http://www.atlas.utah.gov/deqderr/>.

### Division of Water Quality (DWQ)

- 2004 Colorado River Southeast Watershed Management Unit Water Quality Assessment 2004. Retrieved May 1, 2006 from <http://www.waterquality.utah.gov/documents/coloradoriversoutheast2004fact12-22-04.pdf>.
- 2006 Utah's 2006 Integrated Annual Report: Volume II-303(d) List of Impaired Waters. Retrieved May 7, 2006 from [http://www.waterquality.utah.gov/documents/200\\_303d\\_submittal\\_3-31-06.pdf](http://www.waterquality.utah.gov/documents/200_303d_submittal_3-31-06.pdf).

## References

---

### Division of Water Resources

- 2000 Utah State Water Plan 2000 - Southeast Colorado River Basin. October 2000. Retrieved July 10, 2006 from <http://www.water.utah.gov/planning/SWP/seastcol/secolindex.htm>.

### Division of Water Rights

- 2006 Water Rights downloadable statewide GIS data sets. Water Rights Points of Diversions (WRPOD). Retrieved June 6, 2006 from <http://www.waterrights.utah.gov/gisinfo/wrcover.asp>

### Division of Wildlife Resources

- 1994 The Nature Conservancy (TNC) and the Department of Natural Resources, Division of Wildlife Resources. Scott Matheson Wetland Preserve Site Conservation Plan. October, 1994.

### Environment, Health, and Safety Online

- 2004 Gasoline Health Hazards. Retrieved August 21, 2006 from [www.ehso.com/ehshome/gasoline.htm](http://www.ehso.com/ehshome/gasoline.htm)

### Environmental Data Resources, Inc. (EDR)

- 2005 DataMap Area Study. US 191 Over CO River Bridge C-285 Moab, UT 84532. Inquiry number 01565642.1r. December 01, 2005.

### Environmental Protection Agency [United States] (EPA)

- 1999 Integrated Risk Information System on Lead and Compounds (Inorganic). Washington, D.C.: National Center for Environmental Assessment, Office of Research and Development.
- 2002a Functions and Values of Wetlands Fact Sheet [EPA 843-F-01-002c]. Office of Water, Office of Wetlands, Oceans, and Watersheds.
- 2002b Sole Source Aquifer Determination for Glen Canyon Aquifer System, Moab, Utah. (Federal Register Volume 67, No. 4. January 7, 2002.) Retrieved May 17, 2006 from <http://www.epa.gov/fedrgstr/EPA-WATER/2002/January/Day-07/w297.htm>.
- 2006a NPL web page. Accessed June, 2006 from <http://www.epa.gov/superfund/sites/npl/npl.htm>.
- 2006b CERCLIS web page. Accessed June, 2006 from <http://cfpub.epa.gov/supercpad/cursites/srchsites.cfm>.
- 2006c Enviromapper for Envirofacts web page. Accessed June, 2006 from <http://www.hazardouswaste.utah.gov/>.

### Federal Highway Administration (FHWA)

- 1983 Programmatic Section 4(f) Evaluation and Approval for FHWA Projects that Necessitate the Use of Historic Bridges. Retrieved April 14, 2006 from <http://www.environment.fhwa.dot.gov/provide/4fbridge/asp>.
- 1987 Technical Advisory T 6640.8A. October 30, 1987.
- 1995a Highway Traffic Noise Analysis and Abatement. June, 1995.
- 1995b Recording and Coding Guide for the Structure Inventory and Appraisal of the Nation's Bridges. No. FHWA-PD-96-001. December, 1995.
- 1996 Community Impact Assessment A Quick Reference for Transportation. September, 1996.
- 1997 Considering Cumulative Effects Under the National Environmental Policy Act.
- 1998 Actions to Address Environmental Justice in Minority Populations and Low-Income Populations.
- 2002 Hartle, R. Ryan, T. Mann, E. Danovich, L. Sosko, W. and Bouscher, J. 2002 Bridge Inspector's Reference Manual. Vol. 1. Publication No. FHWA-NHI-03-001.
- 2004 US-191, Arches National Park Easement, Project No. F-013-2(2) & F-5(5). May 24, 2004.
- 2006a Interim Guidance Air Toxics Analysis in NEPA documents. February 3, 2006.
- 2006b Questions and Answers on the Application of the Section 4(f) De Minimis Impact Criteria. Retrieved February 9, 2006 from <http://www.fhwa.dot.gov/hep/qasdeminimis.htm>.

Four Corners Planning, Inc.

- 2001 Moab/Grand County North Corridor Gateway: A General Plan Amendment. Report printed on April 4, 2001.
- 2004 Grand County General Plan Update. Report printed on April 13, 2004.

Geological Society of America (GSA)

- 2003 Abstracts with Programs, Groundwater Quality Classification and Septic Tank Density Analysis in Moab-Spanish Valley, Southeastern Utah. Vol. 35, No. 6, September 2003, p. 483. Retrieved June 20, 2006 from [http://gsa.confex.com/gsa/2003AM/finalprogram/abstract\\_60993.htm](http://gsa.confex.com/gsa/2003AM/finalprogram/abstract_60993.htm).

Governor's Office of Planning and Budget (GOPB)

- 2005 Baseline Projections. 2005. Retrieved November 16, 2005 from <http://governor.utah.gov.dea>.

Grand County Trail Mix Committee

- 2005 Grand County Master Plan for Non-Motorized Trails. May 17, 2005.

Grierson, D. (Personal communication [email], June 1, 2006). FFSL Planner, Sovereign Lands Coordinator. Discussion regarding Sovereign Lands.

Guzzetti, C. (Personal communication [email], June 13, 2006). EPA Representative. Discussion regarding Glen Canyon Aquifer.

Hofhine, M. (Personal communication [meeting], December 8, 2005). Grand County Planning Advisor. Discussion regarding annexation of land, water and sewer, zoning, land use and development, traffic, roadway construction restrictions, population, housing, environmental justice, and trails.

International Association for Public Participation (IAP2)

- 2006 Foundations of Public Participation.

Invasive Species Specialist Group (ISSG)

- 2006 The Global Invasive Species Database. Retrieved March 8, 2006 from [www.invasivespecies.net](http://www.invasivespecies.net).

Lanigan, S.H., and Tyus H.M. (1989). Population size and status of the razorback sucker in the Green River basin, Utah and Colorado. North American Journal of Fisheries Management 9:1.

McArthur, S. (Personal communication [phone call], January 24, 2006). Utah State Parks and Recreation Grant Coordinator. Discussion regarding Section 6(f) resources.

Metzler, D. (Personal communication [phone call], November 2, 2006). USDOE Federal Project Director. Discussion regarding hazardous materials/waste.

Michael Baker Jr., Inc

- 2005 Year 2030 No-Build Intersection LOS Analysis Technical Memorandum. December 16, 2005.
- 2006a Wetland Delineation and Waters of the U.S. Identification. February, 2006.
- 2006b Wetland Delineation and Waters of the U.S. Identification Addendum. May, 2006.
- 2006c Noise Analysis for Bridge / Roadway Reconstruction and Widening on US-191, from 400 North in Moab City to SR-279 (Potash Road) in Grand County, Utah. May, 2006.
- 2006d Biological Assessment for Bridge / Roadway Reconstruction and Widening on US-191, from 400 North in Moab City to SR-279 (Potash Road) in Grand County, Utah. July, 2006.

Minckley, W.L., and Deacon, J.E. (1991). Battle Against Extinction, Native Fish Management in the American West. The University of Arizona Press.

## References

---

Moab Area Travel Council. The Official Moab, Utah 2006/2007 Calendar of Events. Retrieved October 30, 2006 from <http://www.discovermoab.com/calendar.htm>

### Moab [City of]

- 2001 Moab General Plan. Retrieved November 15, 2005 from [http://www.moabcity.state.ut.us/departments/planning/gen\\_plan.htm](http://www.moabcity.state.ut.us/departments/planning/gen_plan.htm).
- 2006 Moab Area Economic Development Office. Utility information and rates. Retrieved March 15, 2006 from <http://www.filmmoab.com/eco/pages/utilites.html>.

### Montgomery Archaeological Consultants (MOAC)

- 2006a Whitfield, A. Stash, R., and Hamblin, A. Final Cultural and Fossil Resource Inventory of Utah Department of Transportation's Colorado River Bridge Replacement Project, Grand County, Utah. August 2, 2006.
- 2006b Whitfield, A. Stash, R., and Shank, D. Final Historic Standing Structure Inventory for the Utah Department of Transportation's Colorado River Bridge Replacement Project, Grand County, Utah. August 2, 2006.

### National Cooperative Highway Research Program (NCHRP)

- 2003 Recommended Procedures for the Safety Performance Evaluation of Highway Features, Report 350. National Academy Press: Washington, D.C.

### National Park Service (NPS)

- 1989 The General Management Plan and Development Concept Plan for Arches National Park. August, 1989.
- 1997 Sogge, M.K., R.M. Marshall, S.J. Sferra, and T.J. Tibbitts. 1997a. A Southwestern Willow Flycatcher Natural History Summary and Survey Protocol. Colorado Plateau Research Station at Northern Arizona University. Technical Report NPS/NAUCPRS/NRTR-97/12.
- 2002 Moran, M. and Shelz, C. Vegetation Long-term Monitoring at Arches National Park. 1987- 2002.
- 2004a Moran, M. and Shelz, C. Threatened, Endangered, and Species of Concern, Southeast Utah Group. January, 2004.
- 2004b Arches National Park Superintendent's Annual Narrative Report – Fiscal year 2004.
- 2006a Rivers and Trails, Utah Segments. Retrieved March 20, 2006 from <http://nps.gov/ncrc/programs/rtca/nri/states/ut/html>.
- 2006b Nature and Science, Geologic Formations. Retrieved April 7, 2006 from <http://nps.gov/arch/pphtml/subnaturalfeatures14.html>.
- 2006c Arches National Park, Utah. Park Geology. Retrieved April 7, 2006 from <http://www2.nature.nps.gov/geology/park/arch>.
- 2006d Arches National Park, Utah. Draft Transportation Implementation Plan and Environmental Assessment - September 2006. Accessed November 7, 2006 from <http://parkplanning.nps.gov/document.cfm?parkID=25&projectId=14558&documentID=16798>

Olsen, D., and Hugie, R. (Personal communication [meeting] December 8, 2005). Moab Planning and Community Development Director and City Planner. Discussion regarding annexation of land, water and sewer, zoning, land use and development, traffic, roadway construction restrictions, population, housing, and environmental justice, and trails.

Olsen, D. (Personal communication [phone call] July 31, 2006). Moab Planning and Community Development Director. Discussion regarding commercial development and existing and planned trails.

Sloan, B. (Personal communication [phone call March 6, 2006). Arches National Park Service Biologist. Discussion regarding presence/absence of species on NPS managed lands in the study area.

### State of Utah

- 2004 Utah Administrative Code Rule R930-3, Highway Noise Abatement.

Stegner, P. (1994). Red Ledge Province – The Colorado Plateau Eco-Region, Sierra. March-April, 1994.

Stevens, K. (Personal communication [ phone call] November 3, 2006). Moab BLM. Discussion regarding Wild and Scenic River Classification for Colorado River.

#### Transportation Research Board (TRB)

2000 Highway Capacity Manual. National Research Council: Washington, DC.

#### United States Army Corps of Engineers (USACE)

1987 Corps of Engineers Wetlands Delineation Manual. [Wetlands Research Program Technical Report Y-87-1]. Retrieved from <http://www.mvn.army.mil/ops/regulatory/wlmans87.pdf>.

2006 Utah Navigable Waterways. Retrieved May 17, 2006 from [http://www/spk/usace.army.mil/organizations/cespk-co/regulatory/ut\\_waterways.html](http://www/spk/usace.army.mil/organizations/cespk-co/regulatory/ut_waterways.html).

#### United States Department of Agriculture (USDA)

1996 Interim Final Rule for Highly Erodible Land and Wetland Conservation (Federal Register, Vol. 61 No. 174. September 6, 1996).

2004 Hydric Soils List, Grand County Utah – Central Part. December 21, 2004.

#### United States Department of Energy (USDOE)

2005 Remediation of the Moab Uranium Mill Tailings, Grand and San Juan Counties, Utah, Final Environmental Impact Statement, July 2005.

2006 Record of Decision for the Remediation of the Moab Uranium Mill Tailings, Grand and San Juan Counties, UT. Retrieved March 14, 2006 from <http://www.eh.doe.gov/nepa/rods/2005/55358.pdf>.

#### United States Department of Interior (USDOI)

2004 Scarlett, P.L. Statement of P. Lynn Scarlett, Assistant Secretary for Policy, Management and Budget, Department of the Interior, before the Subcommittee on National Parks Recreation, and Public Lands of the House Committee on Resources, Concerning H.R. 3283, Federal Lands Recreation Enhancement Act. Retrieved March 16, 2006 from <http://www.doi.gov/oc/2004/HR3283.htm>.

#### United States Fish and Wildlife Services (USFWS)

1985 Yellow-billed Cuckoo (*Coccyzus americanus occidentalis*) Sensitive Species Monitoring Plan. Region 1. December 1985.

1990a Humpback Chub (*Gila cypha*) Recovery Plan. Mountain Prairie Region 6, Denver, Colorado.

1990b Bonytail Chub (*Gila elegans*) Recovery Plan. Mountain Prairie Region 6, Denver, Colorado.

1991 Razorback Sucker (*Xyrauchen texanus*) Recovery Plan. Mountain Prairie Region 6, Denver, Colorado.

1995 Mexican Spotted Owl Recovery Plan. Southwest Region 2.

1998 Colorado Pikeminnow (*Ptychocheilus lucius*) Recovery Plan. Mountain-Prairie Region 6, Denver, Colorado.

2002a Humpback Chub (*Gila cypha*) Recovery Goals: Amendment and Supplement to the Humpback Chub Recovery Plan. Mountain-Prairie Region 6, Denver, Colorado.

2002b Bonytail Chub (*Gila elegans*) Recovery Goals: Amendment and Supplement to the Bonytail Chub Recovery Plan. Mountain-Prairie Region 6, Denver, Colorado.

2002c Colorado Pikeminnow (*Ptychocheilus lucius*) Recovery Goals: Amendment and Supplement to the Colorado Pikeminnow Recovery Plan. Mountain-Prairie Region 6, Denver, Colorado.

2002d Razorback Sucker (*Xyrauchen texanus*) Recovery Goals: Amendment and Supplement to the Razorback Sucker Recovery Plan. Mountain-Prairie Region 6, Denver, Colorado.

2002e Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances. January 2002.

2006 Final Biological Opinion for US-191, Colorado River Bridge #C-285; Project No. BHF-019(27)129E. October 2006.

## References

---

### United States Geological Survey (USGS)

- 2006 USGS Water Data for the Nation. National Water Information System. Monthly mean streamflow for the Colorado River near Cisco, UT and average monthly mean in cfs, Courthouse Wash near Moab, UT. Retrieved May 20, 2006 and July 10, 2006 from <http://nwis.waterdata.usgs.gov/nwis>

### Utah Department of Transportation (UDOT)

- 2002 Moab to I-70 Project at Crescent Junction (Moab Canyon), Environmental Study, Project No. SP-0191(30)125.
- 2003a Air Quality Hot Spot Manual. August, 2003.
- 2003b SR-191 Over Colorado River Scour Project Design Study Report. September, 2003.
- 2003c Structure Inventory and Appraisal Sheet for Bridge Inspection of Structure No. C 285. Hydraulic Division, October 2003.
- 2004a US-191 Colorado River Bridge Scoping Summary.
- 2004b Traffic Noise Abatement Policy (UDOT 08A2-1). Revised March 8, 2004.
- 2004c US-191 Moab Main Street Environmental Study, Project No. NH-0191(25)124. April, 2004.
- 2004d Operational Safety Report. April 23, 2004.
- 2004e US-191 Colorado River Bridge Study, Project No. BRF-0191(23)128. October, 2004.
- 2006a Partners for the Road Ahead, A Guide to Prepare Your Business for Transportation Projects. Retrieved May 31, 2006 from [www.udot.utah.gov/business-guide](http://www.udot.utah.gov/business-guide)
- 2006b Determination of Eligibility and Finding of Effect. May, 2006.
- 2006c Draft Memorandum of Agreement

### Utah Department of Workforce Services

- 2005 Grand County Fact Sheet. Retrieved November 16, 2005 from <http://jobs.utah.gov/jsp/wi/utalmis/default.do>

### Utah Geological Survey (UGS)

- 1999 Eisinger, C. and Lowe, M. A Summary of the Ground-Water Resources and Geohydrology of Grand County, Utah. May 1999. Retrieved May 31, 2006 from <http://geology.utah.gov/online/c/c-99.pdf>.

### Utah History Encyclopedia

- 2006 History of Moab, Utah. Retrieved March 22, 2006 from <http://onlineutah.com/moabhistory.shtml>.

### Utah Rivers Council (URC)

- 2006 Proposed Designations for the Colorado River. Retrieved November 1, 2006 from [http://www.utahrivers.org/wild\\_scenic/utah\\_map/upper\\_colorado/colorado\\_river.shtml](http://www.utahrivers.org/wild_scenic/utah_map/upper_colorado/colorado_river.shtml)

### Utah State Tax Commission

- 2004 Utah Property Tax. 2004 Annual Statistical Report. Retrieved from <http://propertytax.utah.gov>.

### Utah State University

- 2006 Utah Water Resources Lab. Utah Water Atlas. Retrieved May 7, 2006 from <http://www.engineering.usu.edu/uwrl/atlas/>.

Wheeler, B. (Personal communication [email] February 1, 2006). UDOT Structures Division. Discussion regarding required barrier type.

Wheeler, B. (Personal communication [memo] July 25, 2006). Regarding demolition of structure C-285.

Wheeler, B. (Personal communication [memo] July 25, 2006). UDOT Structures Division. Regarding phasing of construction for C-285.

Wood, C. (Personal communication [phone call] October 31, 2006). Utah Division of Wildlife Resources. Discussion regarding Big Horn Sheep fencing and signs.

Wood, D. (Personal communication [phone call] October 24, 2006). NPS, Arches National Park. Discussion regarding Big Horn Sheep fencing and signs.